

DHABALESWAR INSTITUTE OF POLYTECHNIC

LESSON PLAN

Name of the Teaching Faculty

Ashis Mohapatra

Discipline:
Department in
CS. Engg.

Semester: 4th.

Subject:

No. of days per week

Class Allotted: 06

Semester from Dt. _____ to Dt. _____

No. of Weeks: 14

Week

Class Day

Theory / Practical Topics

First

1st.

CH-1 Network & protocol

2nd.

Network

3rd

protocol & Architecture

4th

Network standards

Second.

1st.

OSI

2nd

TCP/ IP

3rd

CH-2 Data Transmission & Media

4th

Data Transmission concept

5th

Data Transmission Terminology

Third

1st.

Analog Data Transmission

2nd

Digital Data Transmission

3rd

Transmission Impairments

4th

channel capacity

5th

Transmission Media

Fourth

1st

Guided Transmission

2nd

Wireless Transmission

3rd

CH-3 Data Encoding

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LESSON PLAN

Date

Topic to be covered as per Lesson Plan

Network & protocol

Network

protocol & Architecture

Network standards

OSI

TCP/ IP

Data Transmission & Media

Data transmission concept

Data Transmission Terminology

Analog Data Transmission

Digital Data Transmission

Transmission Impairments

channel capacity

Transmission Media

Guided Transmission

Wireless Transmission

Data Encoding.

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LESSON PLAN

Week	Class Day	Theory / Practical Topics
Fifth	1st	Digital Data Digital signals
	2nd	Digital Data Analog signals
	3rd	Analog Data Digital signals
	4th	Analog Data Analog signals
Sixth	1st	<u>CH-4</u> Data communication & Data link control
	2nd	Asynchronous Transmission
	3rd	Synchronous Transmission
	4th	Error Detection
	5th	Line configuration
Seventh	1st	Flow control
	2nd	Error control
	3rd	Multiplexing
	4th	FDM Synchronous TDM
	5th	Statistical TDM
Eighth	1st	<u>CH-5</u> Switching & Routing
	2nd	Circuit switching Networks
	3rd	Packet switching Principles
	4th	X.25
	5th	Routing in Packet

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LESSON PLAN

Date	Topic to be covered as per Lesson Plan	Topic covered
	Digital Data Digital signals	Digital Data Digital signals
	Digital Data Analog signals	Digital Data Analog signals
	Analog Data Digital signals	Analog Data Digital signals
	Analog Data Analog signals	Analog Data Analog signals
	Data communication & Data link control	Data communication & Data link control
	Asynchronous Transmission	Asynchronous Transmission
	Synchronous Transmission	Synchronous Transmission
	Error Detection	Error Detection
	Line configuration	Line configuration
	Flow control	Flow control
	Error control	Error control
	Multiplexing	Multiplexing
	FDM Synchronous TDM	FDM Synchronous TDM
	Statistical TDM	Statistical TDM
	Switching & Routing	Switching & Routing
	Circuit switching Networks	Circuit switching Networks
	Packet switching Principles	Packet switching Principles
	X.25	X.25
	Routing in Packet	Routing in Packet

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LESSON PLAN

Week	Class Day	Theory / Practical Topics
Ninth	1st	Switching
	2nd	congestion
	3rd	Effects on congestion
	4th	congestion control
	5th	traffic Management
Tenth	1st	congestion control in packet switching
	2nd	Network
	3rd	CH-6 LAN Technology
	4th	Topology & Transmission Media
	5th	LAN Protocol Architecture
Eleventh	1st	Medium Access Control
	2nd	Bridge, Hub, Switch
	3rd	Ethernet CSMA/CD
	4th	Fiber channel
	5th	Wireless LAN Technology
Twelfth	1st	CH-7 TCP/IP protocol suite
	2nd	Basic Protocol functions
	3rd	Principles of Internetworking

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Date	Topic to be covered as per Lesson Plan
	switching
	congestion
	Effects on congestion
	congestion control
	Traffic Management
	congestion control in packet switching
	Network
	LAN Technology
	Topology & Transmission Media
	LAN Protocol Architecture
	Medium Access Control
	Bridge, Hub, Switch
	Ethernet
	Fiber channel
	Wireless LAN Technology
	TCP/IP protocol suite
	Basic Protocol functions
	Principles of Internetworking

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LESSON PLAN

Week	Class Day	Theory / Practical Topics
Thirteenth	1st	Internet protocol
	2nd	operations
	3rd	IP working
	4th	conclusion

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LESSON PLAN

Date	Topic to be covered as per Lesson Plan
	Internet protocol operations of IP.
	IP working